What Is Claimed Is:

1	1. A method to facilitate debugging computer code within an
2	operating system kernel, comprising:
3	receiving a source file containing a data structure definition;
4	searching the source file for the data structure definition;
5	upon finding the data structure definition, saving the data structure
6	definition in a storage structure;
7	generating a new source code to display a data structure, wherein the new
8	source code is created using the data structure definition;
9	compiling the new source code into an executable module;
10	installing the executable module into a modular debugger; and
11	during execution of the modular debugger, displaying a content of the data
12	structure to a user of the modular debugger using the executable module, whereby
13	the user is able to view the content of the data structure.

- 1 2. The method of claim 1, wherein receiving the source file includes 2 receiving a plurality of source files.
- 1 3. The method of claim 1, wherein the source file contains a plurality 2 of data structures.
- 1 4. The method of claim 3, wherein saving the data structure definition 2 in the storage structure includes saving the plurality of data structures in the 3 storage structure.

1	5. The method of claim 3, wherein generating the new source code	
2	includes:	
3	examining the plurality of data structures in the storage structure to locat	e
4	a cross-reference between data structures; and	
5	generating the new source code for the plurality of data structures.	
1	6. The method of claim 5, wherein generating the new source code	
2	includes generating source code to walk a linked list of data structures.	
1	7. The method of claim 6, wherein displaying the content of the data	a
2	structure includes displaying the content of the linked list of data structures.	
1	8. The method of claim 1, wherein the data structure definition	
2	includes one of a tree, a linked list, a doubly linked list, and a queue.	
1	9. A computer-readable storage medium storing instructions that	
2	when executed by a computer cause the computer to perform a method to	
3	facilitate debugging computer code within an operating system kernel, the method	od
4	comprising:	
5	receiving a source file containing a data structure definition;	
6	searching the source file for the data structure definition;	
7	upon finding the data structure definition, saving the data structure	
8	definition in a storage structure;	
9	generating a new source code to display a data structure, wherein the new	N
10	source code is created using the data structure definition;	
11	compiling the new source code into an executable module;	
12	installing the executable module into a modular debugger; and	

13	during execution of the modular debugger, displaying a content of the data
14	structure to a user of the modular debugger using the executable module, whereby
15	the user is able to view the content of the data structure.
1	10. The computer-readable storage medium of claim 9, wherein
2	receiving the source file includes receiving a plurality of source files.
1	11. The computer-readable storage medium of claim 9, wherein the
2	source file contains a plurality of data structures.
1	12. The computer-readable storage medium of claim 11, wherein
2	saving the data structure definition in the storage structure includes saving the
3	plurality of data structures in the storage structure.
1	13. The computer-readable storage medium of claim 11, wherein
2	generating the new source code includes:
3	examining the plurality of data structures in the storage structure to locate
4	a cross-reference between data structures; and
5	generating the new source code for the plurality of data structures.
1	14. The computer-readable storage medium of claim 13, wherein
2	generating the new source code includes generating source code to walk a linked
3	list of data structures.

displaying the content of the data structure includes displaying the content of the

The computer-readable storage medium of claim 14, wherein

linked list of data structures.

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1	16. The computer-readable storage medium of claim 9, wherein the
2	data structure definition includes one of a tree, a linked list, a doubly linked list,
3	and a queue.
1	17. An apparatus to facilitate debugging computer code within an
2	operating system kernel, comprising:
3	a receiving mechanism that is configured to receive a source file
4	containing a data structure definition;
5	a search mechanism that is configured to search the source file for the data
6	structure definition;
7	a saving mechanism that is configured to save the data structure definition
8	in a storage structure;
9	a generating mechanism that is configured to generate a new source code
10	to display a data structure, wherein the new source code is created using the data
11	structure definition;
12	a compiling mechanism that is configured to compile the new source code
13	into an executable module;
14	an installing mechanism that is configured to install the executable modul
15	into a modular debugger; and
16	a displaying mechanism that is configured to display a content of the data
17	structure to a user of the modular debugger using the executable module, whereby
18	the user is able to view the content of the data structure.

1 18. The apparatus of claim 17, wherein the receiving mechanism is 2 further configured to receive a plurality of source files.

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1	19. The apparatus of claim 17, wherein the search mechanism is
2	further configured to search the source file for a plurality of data structures.
1	20. The apparatus of claim 19, wherein the saving mechanism is
2	further configured to save the plurality of data structures in the storage structure.
1	21. The apparatus of claim 19, further comprising:
2	an examining mechanism that is configured to examine the plurality of
3	data structures in the storage structure to locate a cross-reference between data
4	structures; and
5	wherein the generating mechanism is further configured to generate the
6	new source code for the plurality of data structures.
1	22. The apparatus of claim 21, wherein the generating mechanism is
2	further configured to generate source code to walk a linked list of data structures.
1	23. The apparatus of claim 22, wherein the displaying mechanism is
2	further configured to display the content of the linked list of data structures.
1	24. The apparatus of claim 17, wherein the data structure definition

includes one of a tree, a linked list, a doubly linked list, and a queue.